



## DAFTAR PUSTAKA

- Abas, F., Lajis, N.H., Shaari, K., Israf, D.A., Stanslas, J., Yusuf, U.K., dkk., 2005. A labdane diterpene glucoside from the rhizomes of Curcuma mangga. *Journal of Natural Products*, **68**: 1090–1093.
- Aitken, S.J., Thomas, J.S., Langdon, S.P., Harrison, D.J., dan Faratian, D., 2010. Quantitative analysis of changes in ER, PR and HER2 expression in primary breast cancer and paired nodal metastases. *Annals of Oncology*, **21**: 1254–1261.
- Akram, M., Iqbal, M., Daniyal, M., dan Khan, A.U., 2017. Awareness and current knowledge of breast cancer. *Biological Research*, **50**: 33.
- Amos, S.M., Duong, C.P.M., Westwood, J.A., Ritchie, D.S., Junghans, R.P., Darcy, P.K., dkk., 2011. Autoimmunity associated with immunotherapy of cancer. *Blood*, **118**: 499–509.
- Anonim, 2020. 'Cancer in Indonesia'. URL: <https://gco.iarc.fr/today/data/factsheets/populations/360-indonesia-factsheets.pdf> (diakses tanggal 9/5/2021).
- Asselin-Labat, M.-L., Vaillant, F., Sheridan, J.M., Pal, B., Wu, D., Simpson, E.R., dkk., 2010. Control of mammary stem cell function by steroid hormone signalling. *Nature*, **465**: 798–802.
- Astuti, E., 2015. 'Selektivitas dan mekanisme molekuler antikanker ekstrak aktif rimpang Curcuma mangga Val', . Universitas Gadjah Mada, Yogyakarta.
- Astuti, E., Sunarminingsih, R., Jenie, U.A., dan Mubarika, S., 2014. Pengaruh Lokasi Tumbuh, Umur Tanaman dan Variasi Jenis Destilasi Terhadap Komposisi Senyawa Minyak Atsiri Rimpang Curcuma Mangga Produksi Beberapa Sentra di Yogyakarta **21**: 8.
- Astuti, E., Sunarminingsih, R., Jenie, U.A., Mubarika, S., dan Sismindari, S., 2015. Impact of Curcuma mangga Val. Rhizome Essential Oil to p53, Bcl-2, H-Ras and Caspase-9 expression of Myeloma Cell Line. *Indonesian Journal of Biotechnology*, **19**: 23.
- A.T., N., Rumiyati, S., R., A.F., N., K., B., dan Rohman, A., 2019. Fourier Transform Infrared Spectroscopy (FTIR) coupled with multivariatecalibration and discriminant analysis for authentication of extra virgin olive oilfrom rambutan seed fat. *Food Research*, 727–733.
- Avendaño, C. dan Menéndez, J.C., 2015. Anticancer Drugs That Modulate Hormone Action, dalam: *Medicinal Chemistry of Anticancer Drugs*. Elsevier, hal. 81–131.
- Berg, K.A. dan Clarke, W.P., 2018. Making Sense of Pharmacology: Inverse Agonism and Functional Selectivity. *International Journal of Neuropsychopharmacology*, **21**: 962–977.
- Brouckaert, O., Schoneveld, A., Truyers, C., Kellen, E., Van Ongeval, C., Vergote, I., dkk., 2013. Breast cancer phenotype, nodal status and palpability may be useful in the detection of overdiagnosed screening-detected breast cancers. *Annals of Oncology: Official Journal of the European Society for Medical Oncology*, **24**: 1847–1852.



- Brown, M.T. dan Wicker, L.R., 2000. Discriminant analysis, dalam: *Handbook of Applied Multivariate Statistics and Mathematical Modeling*. Academic Press, San Diego, CA, US, hal. 209–235.
- Chaffer, C.L. dan Weinberg, R.A., 2011. A perspective on cancer cell metastasis. *Science (New York, N.Y.)*, **331**: 1559–1564.
- Chumsri, S., Howes, T., Bao, T., Sabnis, G., dan Brodie, A., 2011. Aromatase, aromatase inhibitors, and breast cancer. *The Journal of Steroid Biochemistry and Molecular Biology*, **125**: 13–22.
- Cordella, C., Moussa, I., Martel, A.-C., Sbirrazzuoli, N., dan Lizzani-Cuvelier, L., 2002. Recent Developments in Food Characterization and Adulteration Detection: Technique-Oriented Perspectives. *Journal of Agricultural and Food Chemistry*, **50**: 1751–1764.
- Cosconati, S., Forli, S., Perryman, A.L., Harris, R., Goodsell, D.S., dan Olson, A.J., 2010. Virtual screening with AutoDock: theory and practice. *Expert Opinion on Drug Discovery*, **5**: 597–607.
- Cowan, M.M., 1999. Plant Products as Antimicrobial Agents. *Clinical Microbiology Reviews*, **12**: 564–582.
- Dai, X., Li, T., Bai, Z., Yang, Y., Liu, X., Zhan, J., dkk., 2015. Breast cancer intrinsic subtype classification, clinical use and future trends. *American Journal of Cancer Research*, **5**: 2929–2943.
- de Boer-Dennert, M., de Wit, R., Schmitz, P., Djontono, J., v Beurden, V., Stoter, G., dkk., 1997. Patient perceptions of the side-effects of chemotherapy: the influence of 5HT3 antagonists. *British Journal of Cancer*, **76**: 1055–1061.
- Departemen Kesehatan Republik Indonesia, 2008. *Farmakope Herbal Indonesia*. Departemen Kesehatan Republik Indonesia, Jakarta.
- Dias, R. dan de Azevedo Jr., W., 2008. Molecular Docking Algorithms. *Current Drug Targets*, **9**: 1040–1047.
- Dosoky, N. dan Setzer, W., 2018. Chemical Composition and Biological Activities of Essential Oils of Curcuma Species. *Nutrients*, **10**: 1196.
- Fadzlillah, N.A., Man, Y.B.C., dan Rohman, A., 2014. FTIR Spectroscopy Combined with Chemometric for Analysis of Sesame Oil Adulterated with Corn Oil. *International Journal of Food Properties*, **17**: 1275–1282.
- Fowler, A.M. dan Alarid, E.T., 2007. Amping up estrogen receptors in breast cancer. *Breast Cancer Research*, **9**: 305.
- Geldenhuys, W.J., Gaasch, K.E., Watson, M., Allen, D.D., dan Van der Schyf, C.J., 2006. Optimizing the use of open-source software applications in drug discovery. *Drug Discovery Today*, **11**: 127–132.
- Ghosh, D., Lo, J., Morton, D., Valette, D., Xi, J., Griswold, J., dkk., 2012. Novel Aromatase Inhibitors by Structure-Guided Design. *Journal of Medicinal Chemistry*, **55**: 8464–8476.
- Gusmaini, Yusron, M., dan Januwati, M., 2004. Teknologi perbanyakan benih sumber temu mangga. *Perkemb Teknol TRO*, **16**: 1–8.
- Hadi, H., 2015. Pengaruh Variasi Cara Dan Waktu Pengeringan Terhadap Randemen Dan Komposisi Minyak Atsiri Curcuma mangga Val. Serta



Uji Aktivitas Antioksidannya', , *Skripsi*, . Universitas Gadjah Mada, Yogyakarta.

- Hoffmann, E. de, 2005. Mass Spectrometry, dalam: *Kirk-Othmer Encyclopedia of Chemical Technology*. American Cancer Society.
- 'International Plant Names Index', , 2005. URL: <https://www.ipni.org/n/872379-1> (diakses tanggal 13/10/2019).
- Irnawati, Riyanto, S., Martono, S., dan Rohman, A., 2019. The employment of FTIR spectroscopy and chemometrics for authentication of pumpkin seed oil from sesame oil. *Food Research*, **4**: 42–48.
- Jantan, I. bin, Ahmad, A.S., Ali, N.A.M., Ahmad, A.R., dan Ibrahim, H., 1999. Chemical Composition of the Rhizome Oils of Four Curcuma Species from Malaysia. *Journal of Essential Oil Research*, **11**: 719–723.
- Jiménez-Carvelo, A.M., Osorio, M.T., Koidis, A., González-Casado, A., dan Cuadros-Rodríguez, L., 2017. Chemometric classification and quantification of olive oil in blends with any edible vegetable oils using FTIR-ATR and Raman spectroscopy. *LWT*, **86**: 174–184.
- Jin, X. dan Mu, P., 2015. Targeting Breast Cancer Metastasis. *Breast Cancer: Basic and Clinical Research*, **9**: 23–34.
- Joshi, P.A., Jackson, H.W., Beristain, A.G., Di Grappa, M.A., Mote, P.A., Clarke, C.L., dkk., 2010. Progesterone induces adult mammary stem cell expansion. *Nature*, **465**: 803–807.
- Khangholi, S. dan Rezaeinodehi, A., 2008. Effect of Drying Temperature on Essential Oil Content and Composition of Sweet Wormwood (*Artemisia annua*) Growing Wild in Iran. *Pakistan Journal of Biological Sciences*, **11**: 934–937.
- Kim, R. dan Skolnick, J., 2008. Assessment of programs for ligand binding affinity prediction. *Journal of Computational Chemistry*, **29**: 1316–1331.
- Lange, C.A. dan Yee, D., 2008. Progesterone and Breast Cancer. *Women's Health*, **4**: 151–162.
- Lavine, B.K. dan Workman, J., 2005. Chemometrics: Past, Present, and Future, dalam: *Chemometrics and Chemoinformatics, ACS Symposium Series*. American Chemical Society, hal. 1–13.
- Lim, T.K., 2016. Curcuma mangga, dalam: *Edible Medicinal and Non-Medicinal Plants*. Springer International Publishing, Cham, hal. 363–370.
- Liu, Y. dan Nair, M.G., 2011. Labdane diterpenes in Curcuma mangga rhizomes inhibit lipid peroxidation, cyclooxygenase enzymes and human tumour cell proliferation. *Food Chemistry*, **124**: 527–532.
- Lumachi, F., Brunello, A., Maruzzo, M., Basso, U., dan Basso, S., 2013. Treatment of Estrogen Receptor-Positive Breast Cancer. *Current Medicinal Chemistry*, **20**: 596–604.
- Malek, S.N.A., Lee, G.S., Hong, S.L., Yaacob, H., Wahab, N.A., Faizal Weber, J.-F., dkk., 2011. Phytochemical and Cytotoxic Investigations of Curcuma mangga Rhizomes. *Molecules*, **16**: 4539–4548.
- Malik, S., Cusidó, R.M., Mirjalili, M.H., Moyano, E., Palazón, J., dan Bonfill, M., 2011. Production of the anticancer drug taxol in *Taxus baccata* suspension cultures: A review. *Process Biochemistry*, **46**: 23–34.



- Miller, J.N. dan Miller, J.C., 2005. *Statistics and Chemometrics for Analytical Chemistry*, 5th ed. ed. Pearson Prentice Hall, Harlow, England ; New York.
- Miller, J.N. dan Miller, J.C., 2010. *Statistics and Chemometrics for Analytical Chemistry*, 6. ed. ed. Prentice Hall, Harlow.
- Momenimovahed, Z. dan Salehiniya, H., 2019. Epidemiological characteristics of and risk factors for breast cancer in the world. *Breast Cancer: Targets and Therapy*, **Volume 11**: 151–164.
- Monsuez, J.-J., Charniot, J.-C., Vignat, N., dan Artigou, J.-Y., 2010. Cardiac side-effects of cancer chemotherapy. *International Journal of Cardiology*, **144**: 3–15.
- Mota, A., Evangelista, A., Macedo, T., Oliveira, R., Scapulatempo-Neto, C., Vieira, R., dkk., 2017. Molecular characterization of breast cancer cell lines by clinical immunohistochemical markers. *Oncology Letters*, .
- Mulyani, S., Nugraheni, N.D., Sari, H.M., dan Siswondo, A.Z.A., 2013. Identitas Makroskopi, Mikroskopi, Kimia, Rimpang C 8.
- Muntean, D.L., 2015. Identification of new superwarfarin-type rodenticides by structural similarity. The docking of ligands on the vitamin K epoxide reductase enzyme's active site. *Acta Universitatis Sapientiae, Agriculture and Environment*, **7**: 108–122.
- Murni, V.W., Saepudin, E., Cahyana, A.H., Rahayu, D.U.C., Hastuti, L.T., dan Haib, J., 2017. Effect of oven drying and storage on essential oil composition of clove (*Syzygium aromaticum*) from Toli-Toli. *AIP Conference Proceedings*, **1862**: 030084.
- Nugraheni, K.S., Khasanah, L.U., Utami, R., dan Ananditho, K., 2016. The Effect Of Pretreatment And Variation Method Of Distillation On Quality Of Cinnamon Leaf Oil 14.
- Ohnishi, S. dan Takeda, H., 2015. Herbal medicines for the treatment of cancer chemotherapy-induced side effects. *Frontiers in Pharmacology*, **6**: .
- Padua, L.S. de (Editor), 1999. *Plant Resources of South-East Asia. No. 12 1: Medicinal and Poisonous Plants [...]*. Backhuys, Leiden.
- Pavia, D.L., Lampman, G.M., Kriz, G.S., dan Vyvyan, J.A., 2008. *Introduction to Spectroscopy*. Cengage Learning.
- Pedroza, D.A., Subramani, R., dan Lakshmanaswamy, R., 2020. Classical and Non-Classical Progesterone Signaling in Breast Cancers. *Cancers*, **12**: 2440.
- Purwakusumah, E.D., Rafi, M., Safitri, U.D., Nurcholis, W., dan Adzkiya, M.A.Z., 2014. Identifikasi dan Autentikasi Jahe Merah Menggunakan Kombinasi Spektroskopi FTIR dan Kemometrik. *agriTECH*, **34**: 82–87.
- Purwanto, P., Cahyaningrum, P.K., dan Sudibyo, R.S., 2021. Perbandingan Aktivitas Sitotoksik Ekstrak Dan Minyak Atsiri Rimpang *Curcuma Mangga* Val. Terhadap Sel MCF-7. *Jurnal Penelitian Saintek*, **26**: .
- Raaijmakers, H.C.A., Versteegh, J.E., dan Uitdehaag, J.C.M., 2009. The X-ray Structure of RU486 Bound to the Progesterone Receptor in a Destabilized Agonistic Conformation. *Journal of Biological Chemistry*, **284**: 19572–19579.



- Rafi, M., Anggundari, W.C., dan Irawadi, T.T., 2016. Potensi Spektroskopi Ftir-Atr Dan Kemometrik Untuk Membedakan Rambut Babi, Kambing, Dan Sapi. *Indonesian Journal of Chemical Science*, **5**: 229–234.
- Reid, L.M., O'Donnell, C.P., dan Downey, G., 2006. Recent technological advances for the determination of food authenticity. *Trends in Food Science & Technology*, **17**: 344–353.
- Rocha R. P., 2011. Influence of drying process on the quality of medicinal plants: A review. *Journal of Medicinal Plants Research*, **5**: .
- Rohman, A., 2017. Infrared spectroscopy for quantitative analysis and oil parameters of olive oil and virgin coconut oil: A review. *International Journal of Food Properties*, **20**: 1447–1456.
- Rohman, A., Che Man, Y. bin, Ismail, A., dan Hashim, P., 2017. FTIR spectroscopy coupled with chemometrics of multivariate calibration and discriminant analysis for authentication of extra virgin olive oil. *International Journal of Food Properties*, **20**: S1173–S1181.
- Rohman, A., Setyaningrum, D.L., dan Riyanto, S., 2014. FTIR Spectroscopy Combined with Partial Least Square for Analysis of Red Fruit Oil in Ternary Mixture System. *International Journal of Spectroscopy*, **2014**: 1–5.
- Rumiyati, Sudibyo, R.S., Sismindari, Jenie, U.A., Mubarika, S., dan Kardono, L.B., 2007. Selective Cytotoxicity of Essential Oil of C. mangga Val. on Cell Lines and Its Effect on Expressions of p53 and Bcl-2. *Proceeding of The International Symposium on Recent Progress in Curcumin Research, Faculty of Pharmacy, Gadjah Mada University, Indonesia.*, .
- Sadekova, S.I., Tan, L., dan Chow, T.Y., 1994. Identification of the aromatase in the breast carcinoma cell lines T47D and MCF-7. *Anticancer research*, **14**: 507–511.
- Sastroamidjojo, H, 2004. *Kimia Minya Atsiri*. Gadjah Mada University Press, Yogyakarta.
- Sastroamidjojo, Hardjono, 2004. *Kimia Minyak Atsiri*. Gadjah Mada University Press, Yogyakarta.
- Sharma, G.N., Dave, R., Sanadya, J., Sharma, P., dan Sharma, K.K., 2010. Various types and management of breast cancer: an overview. *Journal of advanced pharmaceutical technology & research*, **1**: 109–126.
- Shiau, A.K., Barstad, D., Loria, P.M., Cheng, L., Kushner, P.J., Agard, D.A., dkk., 1998. The Structural Basis of Estrogen Receptor/Coactivator Recognition and the Antagonism of This Interaction by Tamoxifen. *Cell*, **95**: 927–937.
- Singh, S., 2020. Effect of drying on the yield and chemical composition of essential oils obtained from Mentha Longifolia leaves. *MOJ Food Processing & Technology*, **8**: 67–69.
- Stashenko, E. dan Martinez, J., 2012. GC-MS Analysis of Volatile Plant Secondary Metabolites.
- Sun, Y.-S., Zhao, Z., Yang, Z.-N., Xu, F., Lu, H.-J., Zhu, Z.-Y., dkk., 2017. Risk Factors and Preventions of Breast Cancer. *International Journal of Biological Sciences*, **13**: 1387–1397.



- Sung, H., Ferlay, J., Siegel, R.L., Laversanne, M., Soerjomataram, I., Jemal, A., dkk., 2021. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA: A Cancer Journal for Clinicians*, **71**: 209–249.
- Tanaka, K., Kuba, Y., Sasaki, T., Hiwatashi, F., dan Komatsu, K., 2008. Quantitation of Curcuminoids in Curcuma Rhizome by Near-infrared Spectroscopic Analysis. *Journal of Agricultural and Food Chemistry*, **56**: 8787–8792.
- Toss, A. dan Cristofanilli, M., 2015. Molecular characterization and targeted therapeutic approaches in breast cancer. *Breast cancer research: BCR*, **17**: 60.
- Verlianara, I., 2004. 'Efek in vitro minyak atsiri Curcuma mangga Val pada sitotoksitas, antiproliferatif dan apoptosis sel raji dan mieloma'. Universitas Gadjah Mada.
- Wang, H., Naghavi, M., Allen, C., Barber, R.M., Bhutta, Z.A., Carter, A., dkk., 2016. Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980–2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*, **388**: 1459–1544.
- Wong, K.C., Chong, T.C., dan Chee, S.G., 1999. Essential Oil of *Curcuma mangga* Val. and van Zijl Rhizomes. *Journal of Essential Oil Research*, **11**: 349–351.
- Yersal, O. dan Barutca, S., 2014. Biological subtypes of breast cancer: Prognostic and therapeutic implications. *World Journal of Clinical Oncology*, **5**: 412–424.